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EXRAND-M-42
1 April 1971

COMIREX SUBCOMMITTEE
For
EXPLOITATION RESEARCH AND DEVELOPMENT

Minutes of Meeting Held in IAS Conference Room
0900-1130, Wednesday, 17 March 1971

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*Briefing Only

1. Special Briefings.

The EXRAND Committee received three special briefings during this meeting. All were introduced by [redacted] the NPIC Representative, 25X1 who sponsored the briefers.

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a. [] briefed on a project, "Special High Contrast Reproduction", which was being supported by the CCB. It covered special prints using as criterion: sun angle, density modulation, target categories, target priorities, and shadow characteristics. This briefing emphasized the very necessary need for special printing of reproductions resulting from low sun angle acquisition. A report of the briefing will be forwarded under separate cover in mid April.

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b. [] of the Advanced Technology Branch, Research and Engineering Division, TSG/NPIC, addressed the Committee covering a new system for identifying and using color categories. He and [] of NPIC have originated this system entitled, "Color Gamut of SO-242", a color specification technique. Details of the briefing are attached.

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c. [] of RED/TSG/NPIC, a Project Officer, briefed on the Wide Field High Power Anamorphic Stereoviewer, a new optical breakthrough viewing system which will probably be completed as a prototype before June of 1972. The Community is now being alerted to this potential and should begin procurement planning now. A copy of his briefing will be forwarded under separate cover. It should receive wide distribution in the PI community. [] will be available for further detailed briefings to any member of the Community on request.

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2. Approval of Minutes.

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The minutes of EXRAND-M-41 were approved.

3. Announcements.

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a. [] reported on the future EXRAND programs. The 21 April meeting will be held at NPIC and a special briefing will be arranged covering the latest developments and plans on Side Looking Radar (SENIOR LANCE Program).

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b. [] of TOPOCOM invited EXRAND to conduct their meeting in May at TOPOCOM. They would present a special briefing on several R&D projects of interest to EXRAND followed by a short tour of specific areas of interest. EXRAND representatives will then have luncheon in the Executive Dining Room. All agreed to this plan, and the Executive Secretary will make all detailed arrangements for the meeting.

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c. The Executive Secretary requested some additional information in preparation for the trip to Wright-Patterson AFB, 12-14 April 1971. There followed a discussion concerning the planned world-wide, high-level Tactical Reconnaissance Symposium which will be held at the same time, but in Washington, D. C. Except in the case of [] who will have to attend the Symposium, there will be no other conflict with the trip to Wright-Patterson. At this point, [] presented a description of the Symposium stating that it would be sponsored by the Electronics Industries Association and DIA. The keynote speaker (and person most responsible for setting up this year-long planned meeting) will be [] DDR&E. This Symposium is supposed to result in providing a basis for the future of tactical reconnaissance from the viewpoint of government and industry and will include top managers of the nation in this field.

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d. The DIA member stated that the MC&G Symposium was now scheduled for 27-28 April and will be held at CIA Headquarters.

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e. [] reported that no color will be flown [] but there was a possibility that the new IR could be flown if there was a requirement.

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f. It was reported that a message had been received from [] and [] that the 548th at Hickam had been officially certified OPIC A functions.

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g. The Chairman announced that [] is now on the schedule for a COMIREX briefing 15 April 1971 concerning Community R&D Projects and the Third Annual Report.

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h. [redacted] announced that this was his last meeting and that he was receiving orders as the Plans and Programs Officer at an Air Force base in South Vietnam and that his replacement was here today -- [redacted] said that he would probably be attending the next two meetings as an observer.

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i. [redacted] introduced his new second alternate, [redacted] Burkard replacing [redacted] who is retiring.

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4. Old Business.

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a. [redacted] gave a status report on the receipt of the 1540 light tables to the Community and also the distribution of excess 940 light tables. [redacted] announced that his team had completed coordination for ordering spare parts for the 1540 light tables for the Community. The USAF will negotiate with AIL for all spare parts listings thus accruing considerable savings to the government. [redacted] also announced the existence of surplus equipment lists which he passed on to the members of his team for further distribution to the Community. [redacted] stated that an optic mount had been manufactured by Richards Corporation for old 940 light tables to accommodate the Zoom 240 Microstereoscope. These mounts were not satisfactory but could form the basis for further development and would increase the life and use of 940 light tables in the Community. Further work in this area will be considered by Air Force engineers and possibly NPIC which would receive one of the mounts.

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b. [redacted] reported that the Technical Task Team Third Annual Report and covering letter is completed and that all members would receive copies through the mail. The report would be classified TOP SECRET, TKH. EXRAND members will determine how many copies they need and inform the Executive Secretary. Distribution to the Community will be the responsibility of the EXRAND representatives. At the present time, there will be no sanitized version; however, the Community could utilize individual items of lower classification as they wish by excerpting information as appropriate.

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5. The meeting adjourned at 1125 and members proceeded to the WNY Officers Club. After lunch, a tour of the Advanced Technology Branch, RED/NPIC was conducted.

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Attachments:

1. "Special High Contrast Reproduction" Briefing Report, u.s.c.
2. "Color Gamut of SO-242" Briefing Report, h.w.
3. "Wide Field High Power Anamorphic Stereoviewer" Briefing Report, u.s.c.

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ATTACHMENT 2 TO:

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COLOR GAMUT OF SO-242 BRIEFING

Presented By

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17 March 1971

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COLOR GAMUT OF SO-242

EXRAND was briefed on a special measurement technique that allows conventionally available densitometers to be used to determine chromaticity coordinates of areas of interest on SO-242 photography. The technique, described in detail in the NPIC Technical Report "Colorimetric Measurement of SO-242", converts color densitometer output into C.I.E. Chromaticity coordinates. These C.I.E. coordinates are an objective means of specifying color that removes the human observer from the decision loop. Consequently, the color designation is subject to no variation due to observer differences, color deficient observers or other psychophysical effects.

This measurement system, sometimes called the Color Gamut Technique, is based on computer modeling of the color space of the dyes used in the SO-242 film. The computer printout from this model of SO-242 Color Space is used in a table look up fashion with density versus chromaticity coordinates as the output. The input data needed for color specification is the Red, Green, and Blue density values of interest; the output information is the x, y, and Y values of C.I.E. chromaticity for that same area.

These C.I.E. Values can be converted to the Munsell designators of Hue, Value, and Chroma and the ISCC-NBS System of name and number. This technique of image color specification is presently being validated by measuring a large sample of colors of SO-242 film.

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